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| 9**th RISE Symposium (Research Insights in Semiarid Ecosystems)**  Saturday, 13 October 2012 | | |
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| Marley Building, Room 230 | | |
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| 8:30-9:00 | Registration |  |
| 9:00-9:05 | Mitch McClaran andSusan Moran | RISE Welcome |
| 9:05-9:15 | **Mark Heitlinger**  **UA SRER** | Educational outreach program at Santa Rita Experimental Range |
| 9:15-9:25 | **Phil Heilman**  **USDA ARS SWRC** | Walnut Gulch Experimental Watershed and the Long-Term Agroecosystem Research (LTAR) Network |
| 9:25-9:35 | **Don Falk**  **UA SNRE** | Fire, climate, ecosystems in the Sky Island Bioregion |
| 9:40-10:00 | **Valerie Trouet**  **UA LTRR** | Large-scale interactions of climate, fire and vegetation structure in the western US as observed through tree-rings |
| 10:00-10:20 | **Guillermo Ponce Campos**  **UA SWES** | Vegetation response to extreme drought conditions |
| 10:20-10:40 | **Steve DeLong**  **B2 and UA DG** | The Hills are Alive: Earth Surface Dynamics in the Biosphere 2 Landscape Evolution Observatory |
| 10:45-11:00 | **Poster introductions** | Poster abstracts presented by poster authors |
| 11:00-1:00 | Poster Session | Authors will be with their posters in the hall outside the conference room |
| 12:00-1:00 | Lunch w/ Posters | Provided at the meeting; included in RISE registration fee |
| 1:05-1:15 | **Lindy Brigham**  **SABCC** | Buffelgrass Management: Data Requirements and Modeling Tools for Decision Making |
| 1:15-1:35 | **Brandon Bestelmeyer**  **USDA ARS JER** | State and transition models as management tools: past, present, and future |
| 1:35-1:45 | **Susan Wethington**  **HMN** | Hummingbird Monitoring Network and ongoing efforts in Florida Canyon on the Santa Rita Experimental Range |
| 1:45-2:05 | Laura Lopez-Hoffman **UA SNRE** | Transboundary migration of bats and the implications for managing ecosystem services across political borders |
| 2:05-2:15 | **Poster Contest Awards** |  |
| 2:15-2:45 | Discussion | All speakers and poster authors will be in attendance |

**POSTERS**

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| **Undergraduate Posters Qualifying for Student Competition** | | |
| P1 | Michelle Coe | The Equation of Dust: How Vegetation Clusters Influence Wind Corridors and Erosion |
| P2 | Evan Kipnis | Insights on Ecohydrological Controls of Phenological Events in Larrea tridentata through Continuous Monitoring using Digital Cameras |
| P3 | Kelsey Hawkes | Amount but not Spatial Arrangement of Perennial Grass Cover Differs between Grazed-Ungrazed Settings |
| **Graduate Posters Qualifying for Student Competition** | | |
| P4 | Amber Dalke | Perennial Grass Biomass is related to Grazing Exclusion and Ecological Site, but not Mesquite Cover |
| P5 | Zulia Mayari Sanchez Mejia | Quantifying the Influence of Deep Soil moisture on Ecosystem Albedo: the Role of Vegetation |
| P6 | Sapana Lohani | Error Analysis of Ecological Site Maps in Southern Arizona |
| P7 | Calla McNamee | Soil Phytolith Assemblages and Historical Ecology: Using Phytolith Analysis to Investigate Vegetation Change in Arizona |
| P8 | Stephanie Bittner | Breeding and Parental Care Behavior of the Rufous-Winged Sparrow on the Santa Rita Experimental Range |
| **Other Poster Presentations (but that do not qualify for student competition)** | | |
| P9 | Kirk Ashtroth | Mingus Springs 4-H Camp & Research Facility |
| P10 | Jessica Swetish (Undergraduate) | Influence of Understory Greenness on Trace Gas and Energy Exchage in Forested Ecosystems |
| P11 | Jelena Vukomanovic (Graduate) | Generalized Distance Effects of Houses and Road Networks on Ecological Processes in a Southeastern Arizona Grassland |
| P12 | Shawn Stone (Graduate) | Grassland Revegetation for Mine Reclamation in Southeast Arizona |
| P13 | Bhaskar Mitra | Towards an Improved Understanding of Transpiration across the Critical Zone |
| P14 | Haiyan Wei | Spatial Scale of Drought on the Santa Rita Experimental Range |
| P15 | Haiyan Wei | Do Conservation Practices Influence Recovery from Drought? |
| P16 | Maria Pilar Cendrero Mateo (Graduate) | Steady-State Chlorophyll Fluorescence (Fs) as a Tool to Monitor Plant Drought Stress |
| P17 | Dean Keller | Math, Ecology, & Authentic Field Research |
| P18 | Nathan Pierce (Graduate) | Grass-Shrub Interactions in a Chihuahuan Desert Ecosystem: Can Vegetation Structure Predict State Changes? |

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| **RISE Organizing Committee:**  Erik Hamerlynck, Mitch McClaran, Susan Moran, Shirley Papuga  erik.hamerlynck@ars.usda.gov  [mcclaran@u.arizona.edu](mailto:mcclaran@u.arizona.edu)  [susan.moran@ars.usda.gov](mailto:susan.moran@ars.usda.gov)  papuga@email.arizona.edu | Undefined Acronyms: ARS: Agricultural Research Service  B2: Biosphere 2  DG: Dept. of Geosciences  HMN: Hummingbird Monitoring Network  JER: Jornada Experimental Range  LTRR: Laboratory for Tree Ring Research  SABCC: Southern Arizona Buffelgrass Coordination Center  SNRE: School of Natural Resources and the Environment  SRER: Santa Rita Experimental Range  SWES: Soil, Water, and Environmental Science  SWRC: Southwest Watershed Research Center  UA: University of Arizona  USDA: United States Department of Agriculture |